

SEQUENCE LISTINGS

5 The following sequences are presented:

SEQ ID No. 1 = murine amino acid sequence

SEQ ID No. 2 = murine coding nucleotide sequence

10 SEQ ID No. 3 = truncated human amino acid sequence

SEQ ID No. 4 = truncated human coding nucleotide sequence

SEQ ID No. 5 = human amino acid sequence

SEQ ID No. 6 = human coding nucleotide sequence

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SEQ ID No. 7 = murine cDNA sequence

SEQ ID No. 8 = truncated human cDNA sequence

20 SEQ ID No. 9 = Formula I

(It is to be noted that in the above text, references to SEQ ID No. 2 are equally applicable to SEQ ID No. 7. Also, references to SEQ ID No. 4 or SEQ ID No. 6 are equally applicable to SEQ ID No. 8.)

652221: 1554450

PC10315AGPR
SEQ ID No. 1

95

MSCLMVERCGEVLFESEQSVKVCMLGDVRLRGQTGVPAERRGSYPFIDFRLNNTTHSGEIGTKKKVK 70
RLLSFQRYFHASRLLRGIIPQAPLHLLDEYLGQARHMLSKVGTWDFDIFLFDRLTNGNSLVTLCHLFN 140
5 SHGLIHHFKLDMVTLHRFLVMVQEDYHGHNPYHNAVHAADVQAMHCYLKEPKLASFLTPLDIMLGLLAA 210
AAHDVDHDPGVNQPFILIKTNHHLANLYQNMSVLENHHWRSTIGMLRESRLLAHLPKEMTQDIEQQLGSLIL 280
ATDINRQNEFLTRLKAHLHNKDLRLENVQDRHFMLQIALKCADICNPCRIEWEMSKQWSERVCEEFYRQGD 350
LEQKFLELISPLCNQKDSIPSIQIGFMTYIVEPLFREWARFTGNSTLSENMLSHLAHNKAQWKSLLSNQ 420
HRRRSGSQDLGAPAPETLEQTEGATP 446

SEQ ID No. 2

start

15 ATGTCTTGTTTAATGGTTGAGAGGTGTGGCGAAGTCTTGTTTGAGAGCCCTGAACAGAGTGTCAAA
TGTGTTTGCATGCTAGGAGATGTACGACTAAGGGGTGACACGGGGGTTCCTGCCGAACGCCGTGGCTCCT
ACCCATTTCATTGACTTCCGTCTACTTAACAATACAACACACTCAGGGGAAATTGGCACCAAGAAAAAGGT
GAAACGACTGTTAAGTTTCCAAAGATACTTCCATGCATCTAGGCTTCTCCGGGGGATTATACCGCAGGCC
CCTCTCCACCTGCTGGATGAAGACTACCTTGGACAAGCAAGGCACATGCTCTCCAAAGTTGGAACGTGGG
ACTTTGACATTTTCTTGTGTTGATCGCTTGACAAATGGGAACAGTCTGGTAACCTCTGTTGTGTCACCTCTT
20 CAACTCCCATGGGCTCATCCACCATTTCAGCTCGATATGGTGACCTTGCACAGGTTTCTGGTTATGGTT
CAGGAAGATTACCACGGTCACAACCCATACCACAATGCTGTTCACGCAGCCGACGTACCCAGGCCATGC
ACTGTTACCTGAAGGAGCCAAAGTTGGCAAGCTTCCTCACACCTCTGGACATCATGCTTGGACTACTGGC
TGCAGCAGCTCATGACGTGGACCACCCAGGGGTCAACCAGCCATTTTGTATCAAACTAACCACCATCTT
GCCAACCTGTATCAGAATATGTCTGTACTGGAGAATCACCCTGGCGATCTACAATTGGCATGCTTCGAG
25 AATCACGGCTCCTGGCTCACTTGCCAAAGGAAATGACACAGGATATCGAACAGCAGCTGGGCTCCCTCAT
CTTGGCCACGGATATCAACAGACAGAATGAGTTTCTGACCCGCTTAAAAGCTCACCTCCACAATAAAGAT
TTGAGACTGGAGAATGTACAGGACAGACACTTTATGCTTCAGATCGCCTTGAAGTGTGCTGACATTTGCA
ATCCTTGTCTGATCTGGGAGATGAGCAAGCAGTGGAGTGAAAGGGTCTGTGAGGAATTCTACAGACAAGG
TGACCTTGAACAGAAGTTTGAAGTGGAAATCAGTCCTCTTTGTAATCAACAGAAAGATTCAATCCCTAGC
30 ATACAAATTGGTTTCATGACTTACATCGTGGAGCCGCTGTTCCGGGAGTGGGCCCCGTTTACTGGGAACA
GCACCTGTGCGGAGAACATGCTAAGCCATCTCGCGCACAAAGGCCAGTGGAAGAGCCTGCTGTCCAA
TCAGCACAGACGCGAGGGCAGCGCCAGGACCTGGCGGGCCCCGCACCTGAGACCCTGGAGCAGACAGAA
GGTGCCACGCCCTAA

stop

SEQ ID No. 3

40 MSCLMVERCGEILFENPDQNAKVCMLGDIRLRGQTGVRAERRGSYPFIDFRLNSTTYSGEIGTKKKVK 70
RLLSFQRYFHASRLLRGIIPQAPLHLLDEYLGQARHMLSKVGMWDFDIFLFDRLTNGNSLVTLCHLFN 140
THGLIHHFKLDMVTLHRFLVMVQEDYHSQNPYHNAVHAADVQAMHCYLKEPKLASFLTPLDIMLGLLAA 210
AAHDVDHDPGVNQPFILIKTNHHLANLYQNMSVLENHHWRSTIGMLRESRLLAHLPKEMTGTWDFDIFLFDRL 280
LTNGNSLV 288

SEQ ID No. 4

start

50 ATGTCTTGTTTAATGGTTGAGAGGTGTGGCGAAATCTTGTTTGAGAACCCCGA
TCAGAAATGCCAAATGTGTTTGCATGCTGGGAGATATACGACTAAGGGGTGACACGGGGGTTCGTGCTGAA
CGCCGTGGCTCCTACCCATTTCATTGACTTCCGCCTACTTAACAGTACAACATACTCAGGGGAGATTGGCA
CCAAGAAAAAGGTGAAAAGACTATTAAGCTTTCAAAGATACTTCCATGCATCAAGGCTGCTTCGTGGAAT
TATACCACAAGCCCCCTCTGCACCTGCTGGATGAAGACTCACCCTTGGACAAGCAAGGCATGCTCTCCAAA
55 GTGGGAATGTGGGATTTTACATTTTCTTGTGTTGATCGCTTGACAAATGGAAACAGCCTGGTAACACTGT
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TAACCACCATCTTGCAAACCTATATCAGAATATGTCTGTGCTGGAGAATCATCACTGGCGATCTACAATT
60 GGCATGCTTCGAGAATCAAGGCTTCTTGTCTATTTGCCAAAGGAAATGACGTAA

stop

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HS_PDEXIV      HSRGSSSGSPDHDHAGQGTESEEQ-EGDSP
MM_PDEXIV      HRRRGSG-----QDLGAPAPETLEQTEGATP
                **  ***      . *  *  *      * .  **  **  . *

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SEQ ID No. 6

5 SEQ ID No. 6 is the nucleotide sequence presented as HS_PDEXIV. For reference the sequence MM_PDEXIV is SEQ ID No. 2. CLUSTAL W (1.74) multiple sequence alignment was used.

10 HS_PDEXIV -----ATGTCTTGTTTAATGGTTGAGAGGTGTGGCGAAATCTTGTTTGAGAACCCC
MM_PDEXIV -----ATGTCTTGTTTAATGGTTGAGAGGTGTGGCGAAGTCTTGTTTGAGAGCCCT

15 HS_PDEXIV GATCAGAATGCCAAATGTGTTTGCATGCTGGGAGATATACGACTAAGGGGTCAGACGGGG
MM_PDEXIV GAACAGAGTGTCAAATGTGTTTGCATGCTAGGAGATGTACGACTAAGGGGTCAGACGGGG
** **** * *****

20 HS_PDEXIV GTTCGTGCTGAACGCCGTGGCTCCTACCCATTTCATTGACTTCCGCCTACTTAACAGTACA
MM_PDEXIV GTTCCTGCCGAACGCCGTGGCTCCTACCCATTTCATTGACTTCCGTCTACTTAACAATACA

25 HS_PDEXIV ACATACTCAGGGGAGATTGGCACCAAGAAAAAGGTGAAAAGACTATTAAGCTTTCAAAGA
MM_PDEXIV ACACACTCAGGGGAAATTTGGCACCAAGAAAAAGGTGAAACGACTGTTAAGTTTCCAAAGA
*** *****

30 HS_PDEXIV TACTTCCATGCATCAAGGCTGCTTCGTGGAATTATACCACAAGCCCCCTCTGCACCTGCTG
MM_PDEXIV TACTTCCATGCATCTAGGCTTCTCCGGGGGATTATACCGCAGGCCCTCTCCACCTGCTG

35 HS_PDEXIV GATGAAGACTACCTTGACAAGCAAGGCATATGCTCTCCAAAGTGGGAATGTGGGATTTT
MM_PDEXIV GATGAAGACTACCTTGACAAGCAAGGCACATGCTCTCCAAAGTGGAACTGGGACTTT

40 HS_PDEXIV GACATTTTCTTGTTTGATCGCTTGACAAATGGAAACAGCTTGGTAACACTGTTGTGCCAC
MM_PDEXIV GACATTTTCTTGTTTGATCGCTTGACAAATGGGAACAGTCTGGTAACACTGTTGTGTGCAC

45 HS_PDEXIV CTCTTCAATACCCATGGACTCATTCACCATTTCAAGTTAGATATGGTGACCTTACACCGA
MM_PDEXIV CTCTTCAACTCCCATGGGCTCATCCACCATTTCAAGCTCGATATGGTGACCTTGCACAGG

50 HS_PDEXIV TTTTGTAGTCATGGTTCAAGAAGATTACCACAGCCAAACCCGTATCACAATGCTGTTTCAC
MM_PDEXIV TTTCTGGTTATGGTTTCAGGAAGATTACCACGGTCACAACCCATACCACAATGCTGTTTCAC
*** * * *****

55 HS_PDEXIV GCAGCCGACGTCACCCAGGCCATGCACTGCTACCTGAAAGAGCCAAAGCTTGCCAGCTTC
MM_PDEXIV GCAGCCGACGTCACCCAGGCCATGCACTGTTACCTGAAGGAGCCAAAGTTGGCAAGCTTC

60 HS_PDEXIV CTCACGCCTCTGGACATCATGCTTGGACTGCTGGCTGCAGCAGCACACGATGTGGACCAC
MM_PDEXIV CTCACACCTCTGGACATCATGCTTGGACTACTGGCTGCAGCAGCTCATGACGTGGACCAC

65 HS_PDEXIV CCAGGGGTGAACAGCCATTTTGTGATAAAACTAACCACCATCTTGCAAACCTATATCAG
MM_PDEXIV CCAGGGGTGAACAGCCATTTTGTGATAAAACTAACCACCATCTTGCAAACCTGTATCAG

70 HS_PDEXIV AATATGTCGTGCTGGAGAATCATCACTGGCGATCTACAATTGGCATGCTTCGAGAATCA
MM_PDEXIV AATATGTCGTGCTGGAGAATCAACACTGGCGATCTACAATTGGCATGCTTCGAGAATCA

75 HS_PDEXIV AGGCTTCTTGCTCATTTGCCAAAGGAAATGACACAGGATATTGAACAGCAGCTGGGCTCC
MM_PDEXIV CGGCTCCTGGCTCACTTGCCAAAGGAAATGACACAGGATATCGAACAGCAGCTGGGCTCC

80 HS_PDEXIV TTGATCTTGGCAACAGACATCAACAGGCAGAATGAATTTTGTACCAGATTGAAAGCTCAC
MM_PDEXIV CTCATCTTGGCCACGGATATCAACAGACAGAATGAGTTTCTGACCCGCTTAAAGCTCAC
* *****

85 HS_PDEXIV CTCCACAATAAAGACTTAAGACTGGAGGATGCACAGGACAGGCACTTTATGCTTCAGATC
MM_PDEXIV CTCCACAATAAAGATTTGAGACTGGAGAATGTACAGGACAGACACTTTATGCTTCAGATC

90 HS_PDEXIV GCCTTGAAGTGTGCTGACATTGCAATCCTTGTAAGTCTGGGAGATGAGCAAGCAGTGG
MM_PDEXIV GCCTTGAAGTGTGCTGACATTGCAATCCTTGTCGTATCTGGGAGATGAGCAAGCAGTGG

1. Introduction

AGGTACGCCGTCGAGGTACCGGGTCCGGAATTCCCGGGTTCGACCCACGCGTCCGGCCAGCCTCCAGGCCGG	70
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TGCTTGCTCGCTCGCTCGGCTGGGAGAAAGTGGTGTCTTCGCCAGAGAGCCTCTCTCTCCCTTCTCTT	210
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TTTTTCTTTCTATAAACTTGCATAATTATACTGCTAATCCTGGATGAGGTGCTGGATCTTGCAGCACA	350
AATCTTCATGAACAAGCCGCACCGCTCAGAGATTTTCACAGCATTCAAAGGTCACAGAACTGCCACTATGG	420
start	
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TGTGTTTGCATGCTAGGAGATGTACGACTAAGGGTTCAGACGGGGTTCCTGCCGAACGCCGTGGCTCCT	560
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CCTCTCCACCCTGCTGGATGAAGACTACCTTGGACAAGCAAGGCACATGCTCTCCAAAGTTGGAACGTGGG	770
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CAACTCCCATTGGGCTCATCCCACTTTCAAGCTCGATATGTTGACCTTGCACAGGTTTCTGGTTATGGTT	910
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stop	
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GTCCGACTGCCCTCGCAACAAGCCCATCACGCTGGGTTTCGATGCCATCCGCCTGCCACTTACCGCCTCC	1890
CTTCGTTGATCCAAGTGTACAAAAGCCATTGTACCTCAGCATTAGCTGCCGAAATGGGCGGCTCTATCC	1960
CGTCATGTTGGAGCTGATTCCTGGGGCGGCTGCCCAACCGAAACGCCCTGGAAGTAAAGAAAGGGGTGCTTCTG	2030
CCGTGTTTCGGCTCTGGCCCTTGGTCACGCTGACTGCGAGTAGCTCCTAAGTCCAGACATTTTAACTGTT	2100
GCCATCGGACAGCTGACCTGTCATGACACCAGCATACTTGGAACTGCAAAAAGTGGCTTGGCGTCCAGAGC	2170
ACAAACAGAGAGTGTGAGAGAAAGTACCTTCTATTTTAATAATAATTATTATTATAAAATAATAAATCTTT	2240
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TAGTGAGTCTGATTATAAGCTAG 2823	

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CCGGAATTCGATGCACTGCAGCAGGCTCGGCTCTGTCCAGCACTTGTCTGGGAGAAAAGTGGTGTTACTC	70
ACCCAGGGAGAGTCTCTCTTTTCTACCTTCTCTTCTTCGATCTCCTTGTGTGCTTTTGTGTTTCTTTAT	140
TTCTTTTCTCTTTTCTTTTCTTTTCTTTTCTTACTTAATATATATCTTAATCTTGGATGAGGTGTGCTGG	210
ATTCTTGCAGCACAAGTCTTCATGTAACAAGCAGCAGCGCTCAGAGATTTCACGGCATTCAAAGGTACAGA	280
start	
ACTGCCACTATGGTTAAATGCTGTGTTTAATGGTTGAGAGGTGTGGCGAAATCTTGTTTGAGAACCCCGA	350
TCAGAATGCCAAATGTGTAATTTGTCATGCTGGGAGATATACGACTAAGGGTCAGACGGGGTTCGTGCTGAA	420
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CCAAGAAAAAGGTCGAAAAGACTATAAGCTTTCAAAGATACCTTCCATGCATCAAGGCTGCTTCGTGGAAT	560
TATACCACAAGCCCTCTGCACCTGTGGATGAAGACTACCTTGGACAAGCAAGGCATATGCTCTCCAAA	630
TGTGGAAATGTGGGATTTTGACATTTCTTGTGTTGATCGCTTGACAAATGGAAACAGCCGTGTAACACTGT	700
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stop	
GGCATGCTTCGAGAATCAAGGCTTCTTGCTCATTTGCCAAAGGAAATGACGTAAGTGTGCGGAGATGAA	1120
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AAGTGTGTAGTTTGAACATGTGAAGTTGCTCTTTTAAAGGGCCAAAACAGGAGACTTTTTCAGCTTTTCA	2520
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TCATAGCTCTCTCCCTATAGTGAGTCGTATTATAAGCTAGGCATGGCCGCT	2870
2992	2940

SEQ ID No. 9

See Formula I